Physical Test Solutions

Innovative Solutions in Material Test Equipment

Hardness Testing Instrument

Analogue Shore Durometer

LX-AT/CT/DT

LX-AT (#842-215)

LX-CT (#842-225)

LX-DT (#842-235)

Applications:

- Shore durometer are designed to determine the indentation hardness of material ranging from cellular products from to rigid plastics.
- LX-AT Shore Durometer, designed for testing the hardness of vulcanized rubber and plastic products, has simple structure, easy operation and reading, facility and high resolution. It complies with the standard of GB/T531-1999 and other relevant standard.
- LX-CT Shore Durometer , designed for testing the hardness of foam, sponge, shoe microporore material, etc. It is in accordance with HG/T2489-93.
- LX-DT Shore Durometer is designed for testing the hardness of hard rubber, resin, glass, printed board, fiber and so on. It is in accordance with GB/T531-1999.
- The Durometer test stand is R&D for Shore A, C, and D Durometer. The test stand construction includes operating handle, adjusted glass stage, die poise, clip beam of durometer and carrick column. The shore hardness testing will be more accurate with the stand.

Specifications:

Product Name	Twin-index Analogue Shore Durometer		
Model	LX-AT	LX-CT	LX-DT
Code#	842-215	842-225	842-235
Measuring Range	0-100 HA	0-100 HW	0-100 HD
Available Measuring Range	10-90 HA	10-90 HW	10-90 HD
Resolution	2.5 mm	2.5 mm	0~2.5 mm
Tip Dimension	0.79mm	SR2.5mm	SR0.1mm
Dimension (LxWxH)	115x60x25mm	115x60x25mm	115x60x25mm
Net Weight	100g	100g	100g
Execution Standard	GB/T 531, DIN53505, ASTM D2240, ISO7619, JISK7215		

Shore Durometer and Test Stand:

Product Name	Testing Stand		
Model	LX-AS	LX-CS	LX-DS
Code#	842-515	842-525	842-535
Dimension(LxWxH)	116 x161x340mm	116 x161x340mm	116 x161x340mm
Weight of Stand	5.5kg	5.5kg	7.0kg

LX-DS (#842-535)

Digital Shore Durometer

SI-100 series

Model	Code#	Model	Code#
SI-100A	842-311	SI-100B	842-321
SI-100C	842-331	SI-100D	842-341
SI-100DO	842-351	SI-100O	842-361
SI-100E	842-371	SI-100OO	842-381

Durometer Selection:

Soft	Middle	Hard
	Type A(20-90A)	
	Type B(Above 90A Below 20D)	
	Type C(Above 90B Below 20D)	
	Type D(Above 90A)	
Type DO(Above 90C Below 20D)		
	Type O(Below 20DO)	
	Type E(Above 90DO Below 20A)	
	Type OO(Below 20O)	

Applications:

Shore Hardness Tester SI-100 Series include (A, B, C, D, E, O, DO, OO)type, model complete, with different probe size, use for different measured objects and hardness value, to meet different request for kinds of material hardness measurement.Shore hardness tester are widely used in rubber plastic hardness measurement has and the features of simple structure easy to use type of light weight small reading intuitive etc can carry hand held measurement also can device in supporting the production of the constant load shelf fixed load measurement.

Features:

- Public and imperial units converted, with the average computing power.
- Integrated design, small volume, light weight, simple structure, easy to use, intuitive readings and automatic shutdown function.
- Use USB data output and RS-232 data output with connection PC.
- Brovid"Bluetooth" data output choice.

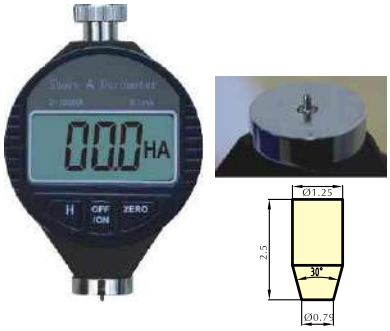
Specifications:

Mode	SI-100
Display	LCD Display
Measuring Range	10~90 HA/HD(B/C/E/O/DO/OO)
Statistics	Avrtshr value, min-max
Resolution	1um(0.1mils)
Accuracy	≤1H
Operating temperature	0~40°C
Power Supply	2x1.5v AAA（UM-4)battery
Dimension	176x63x25 mm
Weight	310g
Execution Standard	DIN53505/ASTM D2240/ISO 7689/JIS K7215

SI-100 Series Model Information:

Model	Code#	Indenter	Typical Examples Of Materials Tested	Haardness Valus
SI-100A	842-311	0.79 Truncated (Frustum) cone	Soft vulcanized rubber, natural rubber natriles, thermoplastic elastomers, flexible polyacrylics and thermosets, wax, felt, and leathers.	20~90A
SI-100B	842-321	R0.1 Cone	Moderately hard rubber, thermoplastic elastomers, paper products, and fibrous materials.	Above 90A Below 20D
SI-100C	842-331	0.79 Truncated (Frustum) cone	Medium-hard rubber, thermoplastic elastomers, medium-hard plastics and thermoplastics.	Above 90B Below 20D
SI-100D	842-341	R0.1 Cone	Hard Rubber, thermoplastic elastomers, harder plastics, and rigid thermoplastics.	Above 90A
SI-100DO	842-351	R1.2 Spherical radius	Moderately hard rubber, thermoplastic elastomers, and very dense textile windings.	Above 90C below 20D
SI-100O	842-361	R1.2 Spherical radius	Soft rubber, thermoplastic elastomers, very soft plastics and thermoplastics, medium-density textile windings.	Below 20DO
SI-100E	842-371	R2.5 Spherical radius	Hrad sponge, EVA	Above 90DO Below 20A
SI-100OO	842-381	R1.2 Spherical radius	Extremely soft rubber, thermoplastic elastomers, sponge, extremely soft plastics and thermoplastics, foams, low-density textile windings.	Below 20O

SI-200 series



SI-200A(842-312)

SI-200C(842-332)

SI-200D(842-342)

Applications:

- SHORE A DUROMETER: It is designed for testing the hardness of soft rubber, printer roller and other elastomer material.
- SHORE D DUROMETER: It is designed for testing the hardness of hard rubber, such as thermoplastic plastics, bowling plastic floor and so on.
- SHORE C DUROMETER: It is designed for measuring Foam, Sponge, Shoes with incorporates material. etc.

Specifications:

Product Name	Digital Shore Durometer		
Model	SI-200A	SI-200C	SI-200D
Code#	842-312	842-332	842-342
Measuring Range	0-100HA	0-100HC	0-100HD
Available Measuring Range	10-90HA	10-90HC	10-90HD
Resolution	0.1HA	0.1HC	0.1HD
Indenter Shape	Flat cone point(0.79mm)35° Included Angle	2.5mm Spherical	Sharp cone point (SR0.1mm) 30° Included Angle
Power Supply	Runs on by one 1.5V cell battery	Runs on by one 1.5V cell battery	Runs on by one 1.5V cell battery

- Thickness of specimen>6mm, no more than 3 layers; Test area >feet area (diameter 18mm)
- Test 3 times and calculate the average as test result.
- Usually, use A/D. When the hardness of A>90, use D.

PHR-1 series

PHR-1(#812-113)
PHR-1S(#812-313)
Opening Size:25X25mm

PHR-4-4(#812-143)
Opening Size:100X100mm

PHR-4-2(#812-143)
PHR-4-2S(#812-333)
Opening Size:100X50mm

PHR-2(#812-143)
PHR-2S(#812-333)
Opening Size:50X50mm

PHR-8-4(#812-163)
Opening Size:200X100mm

PHR-4-3(#812-153)
Opening Size:100X75mm

PHR-20-12(#812-183)
Opening Size:500X300mm

PHR-8-10(#812-173)
Opening Size:200X250mm

Specifications:

Preliminary Test Force	10Kgf(98.07N)
Test Force	60kgf(558.4N), 100kgf(980.7N), 150kgf(1471.3N)
Indenter	120° Cone Diamond Indenter Φ1. 588mm Ball indenter
Indication error	Meets the requirements of ISO06508
Repeatability error	Meets the requirements of ISO06508
Resolution	0.5HR
Measuring Range	15 scales, such as HRA, HRB, HRC, and so on.
Application	All common metal,including steel,copper,aluminum,nickel,lead,tin,cemented steel,hard alloy,etc

Φ1.588 Carbide ball indenter

Φ3. 175mm Carbide ball indenter

Φ6.35mm Steel ball indenter

Φ12.7mm Steel ball indenter

Diamond Conel indenter

Extensions

Anvil for testing ball

Convex cylindrical anvil

Concave cylindrical anvil

Flat anvil

Rockwell Test block

Bench stand

PHR-100 series

Applications:

PHR series is a precisely portable hardness testing instrument for the measurement of metal and plastic material, it is not only suitable to measure the small parts, but also measure large parts, it not only offset the problem that bench top hardness tester can not move to test the large and fixed parts, but also offset the problem that the rebound hardness tester can not make a accurate testing for small parts.

PHR-100(#812-213)
PHR-100X(#812-223)

PHR-16(#812-413)
PHR-32(#812-423)
PHR-64(#812-433)

Features:

- This Rockwell hardness tester is small, portable, accurate, light weight only 0.8kg, and can be easily operated like micrometer.
- Our Rockwell portable hardness tester works on practical hardness testing principle, having the same high testing precision as that of a bench type device. It has high testing accuracy complies with the ISO6508 standard, with an error of no more than 1.5HRC, tested by the National Institute of Metrology.
- The Rockwell portable hardness tester can be adopted for testing fine, long, small and irregular parts, instead of the bench hardness tester.
- Comprising the main unit and holder, the hardness tester can either be used on the table or easily carried to workshops.
- It is fast, only 10 seconds to finish a test.
- Rockwell hardness value can be conveniently read out.
- The internal and external surface hardness of steel tubes can be tested by the Rockwell portable hardness tester.
- This testing device suits parts with small bearing surface, in particular.
- It is designed with traceable standard hardness block, and penetrator passing the inspection by standard Rockwell hardness tester.
- The load cell used to calibrate load can be traced to national secondary standard.

Standard Delivery:

Product Name	Code#
Instrument Main Body	PHR
120° Cone Diamond Indenter	812-403
Flat-anvil	812-503
V-shape Anvil	812-523
Rockwell Test Blocks	/
Φ1. 588mm Ball Indenter	812-463
Accessory Box	812-901
Operation Manual	1

Optional Accessories

Product Name	Code#
Φ3.175mm Carbide ball Indenter	812-473
Φ6.35mm ball Indenter	812-483
Φ12.7mm ball Indenter	812-493
Rockwell test blocks HRC-High	812-631-060
Rockwell test blocks HRC-Medium	812-631-040
Rockwell test blocks HRC-Low	812-631-030
Rockwell test blocks HRA	812-611
Rockwell test blocks HRB	812-621
Customized adapter	812-733

Dual-use Brinell Durometer

PHB-150

PHB-150(#832-123)

Applications:

- If the workpiece can be placed into the C clamp ,PHB-150 static type is recommended for a mord accurate test result.

Features:

- Accurate and consistent test force, controlled by precision shear pin. Works in static type and hammer impact type and follows Brinell hardness test method.
- According to the similarity principle of Brinell hardness test, this tester has 1580kg test force, Φ7.26mm spherical indenter, $F/D^2=30$. The test condition is equivalent to the commonly used 3000kg test force, Φ10mm ball condition.
- High accuracy and repeatability; tested by National Institute of Metrology with tolerance less than ±3%. The accuracy meets the requirements of ISO 6506 and is no lower than that of the bench Brinell hardness tester.
- Easy, quick and simple operation. Static type for testing medium and small size work-pieces; hammer impact type for testing large work-pieces.
- Only one inexpensive shear pin is consumed in each test.
- Good choice to replace Leeb hardness tester and Poldi type hammer impact hardness tester with lower accuracy.

Shear Pins
(#832-723)

Test Head
(#832-933)

Support Handle
(#832-913)

Specifications:

Product Name	Dual-use Brinell Durometer
Model	PHB-150
Code#	832-123
Test Force	1580kg
Tolerance of Test Force	< 0.5%
Indenter	Φ7.26mm steel spherical suface indenter,(test range: 100-400HB); Φ4.0mm carbide spherical surface indenter,(test range: 400-650HB)
Measuring Range	100-650HB
Application	Casting, forging and steel raw materials etc
Accuracy	Meets the requirements of ISO6506 Error of static type: <±3%HB Error of hammer impact type:<±5%HB
Package Dimensions	705×375×205 mm
Gross/Net Weight	11.6Kg/4.2kg

Standard Delivery:

Product Name
Instrument Main Body
Test Head
Φ7.26mm Steel Indenter
Flat Aanvil
V-shape Anvil
Support Handle
Indenter Head Holder
Shear Pins (250 pcs)
Brinell Test Tool
Rubber Protective Caps
20x Reading Microscope
Accessories Box

Optional Brinell Measurement Software

- Friendly Operation Interface
- Auto Identification Measurement
- High Definition Indentation
- Magnetic Touch
- Auto-save Data and Generate Report
- Powerful Compatibility

Brinell Measurement Software BrinScan

Hammer Impact Brinell Durometer

PHB-1

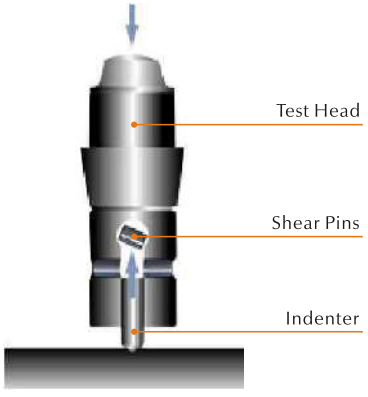
Applications:

- PHB-1 hammer impact type tester should be compared periodically with a bench Brinell hardness tester or static type tester.

Features:

- Accurate and consistent test force, controlled by precision shear pin. Works in static type and hammer impact type and follows Brinell hardness test method.
- According to the similarity principle of Brinell hardness test, this tester has 1580kg test force, Φ7.26mm spherical indenter, $F/D^2=30$. The test condition is equivalent to the commonly used 3000kg test force, Φ10mm ball condition.
- High accuracy and repeatability; tested by National Institute of Metrology with tolerance less than ±3%. The accuracy meets the requirements of ISO 6506 and is no lower than that of the bench Brinell hardness tester.
- Easy, quick and simple operation. Static type for testing medium and small size work-pieces; hammer impact type for testing large work-pieces.
- Only one inexpensive shear pin is consumed in each test.
- Good choice to replace Leeb hardness tester and Poldi type hammer impact hardness tester with lower accuracy.

PHB-1(#832-145)



Specifications:

Product Name	Hammer Impact Brinell Durometer
Model	PHB-1
Code#	832-143
Test Force	1580kg
Tolerance of Test Force	< 0.5%
Indenter	Φ7.26mm steel spherical suface indenter,(test range: 100-400HB); Φ4.0mm carbide spherical surface indenter,(test range: 400-650HB)
Measuring Range	100-650HB
Application	Casting, forging and steel raw materials etc
Accuracy	Meets the requirements of ISO6506 Error of static type: <±3%HB Error of hammer impact type:<±5%HB
Package Dimensions	510×375×177 mm
Gross/Net Weight	3.8Kg/0.8kg

Standard Delivery:

Product Name
Instrument Main Body
Φ7.26mm Steel Indenter
Pin Removal Tool
Brinell Test Tool
20x Reading Microscope
Shear Pins (250 pcs)
Support Handle
Indenter Head Holder
Accessories Box

Optional Brinell Measurement Software

- Friendly Operation Interface
- Auto Identification Measurement
- High Definition Indentation
- Magnetic Touch
- Auto-save Data and Generate Report
- Powerful Compatibility

Brinell Measurement Software BrinScan

Hammer Impact Brinell hardness tester

Introduction:

- Hammer Impact Brinell hardness tester HBC is applied at workshops and large workpiece and the measurement departments for determining the Brinell hardness tester of the ferrous and non-ferrous metals and tensile strength of steel.
- The test condition meets the requirement of JJG411.

Specifications:

Measuring Range	450HBS	Dimensions	Φ25 x110mm
Steel Ball Diameter	Φ10mm	Net Weight	0.5kg

Optional Accessories:

Product Name	Quantity	Product Name	Quantity
Brinell Hardness Block	2	20x Mechanic Microscope	1

Portable Brinell Durometer

Introduction:

- It can test the Brinell hardness value of ferrous and non-ferrous metals, whose modulus of elasticity is approximately equal to 2x100000MP. Accuracy is in accordance with GB/P231.2, ISO6506-2, United States ASTM10.
- It is suitable for industries such as metallurgy, machinery factories ofvarious sizes of metal parts and metal materials.

Specifications:

Measuring Range	100-400HBS	Dimensions	Φ55 x 370mm
Impact Energy	4.9J	Net Weight	3.3kg

Standard Delivery:

Product Name	Quantity	Product Name	Quantity
Portable Brinell Durometer	1	Φ10mm Steel Ball	1
Φ10mm Indenter	1	20x Mechanic Microscope	1

Brinell Analogue Measuring Microscope

Applications:

- Accurately measure the diameter of indentation in Brinell hardness testing.
- Reading microscope can measure the width and length of grooves, slots, keyslot, dents, etc.
- It can test metal surface quality, density, specimens of the wild, and so on.

Specifications:

Specifications / Model	Magnification	Effective field of view (mm)	Dimension	Weight
JC10	20X	Φ6	70 x 50x 155mm	0.5kg
JC5	40X	Φ3	70 x 50x 187mm	0.6kg

W series

Introduction:

- A portable instrument which can perform on-site hardness test on aluminum alloys. The test result can be got with only a simple clamp. It is convenient. efficient and reliable.
- Webster hardness tester is the preferred instrument for testing aluminum alloys mechanical performance ins accordance with American standard ASTM B647.
- Used for quick test the hardness of aluminium profiles, tubings ,sheets, accessories and other soft metal. Especially suitable for quick, non-destructive on-site 100% final products qualification test.
- Webster hardness tester can be also used for testing hardness of copper, brass and soft steel.

W–20(#862-113)

W–20a(#862-123)

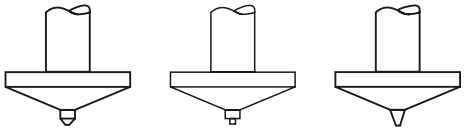
W–20b(#862-133)

Features:

- **Indenter:** Re-engineerred with advanced material and new production technology manufactured, higher hardness, long service life, good interchangeability.
- **Indicator Hand:** high strength indicator hard, less likely to be bent by long-term using or mis-operation.
- **Dial Glass:** High strength, high toughness, uneasy to be broken or scratched.
- **Handle:** Forged aluminum alloy handle with fine anodized finishing, high resistance to abraision and stain.
- **Hardness Blocks:** Tested by standard rockwell hardness tester, the hardness block are attached with test report.
- **Stability:** Stable full scale point, stable calibration point, indicator never glides.
- **Conversion:** Results can be converted to Vickers, Rockwell and Brinell.

Applications:

- W-20: the most popular model, used to test normal aluminum profiles.
- W-20a: used to test aluminum profiles with thickness within 13mm.
- W-20b: used to test aluminum tubings with inner diameter over 6mm.
- W-B75: used to test brass tubings and brass sheets.
- W-BB75: used to test copper tubings and copper sheets.
- W-B92: used to test soft stainless steel sheets, cold-rolled steel, etc.



W–20　W–B75/W-BB75　W–B92

Specifications:

Model	W-20	W-20A	W-20B	W-B75	W-B75B	W-BB75	W-BB75B	W-B92
Code#	862-113	862-123	862-133	862-143	862-153	862-163	862-173	862-183
Measuring Scope	0~20HW							
Indication Error	0.5HW(5~17HW)							
Repeatability Error	0.5HW(5~17HW)							
Hardness Range	25~110HRE; 58~131HRV			63~105HRF		18~100HRE		50~92HRB
Application	Aluminum alloy			Brass		Copper		Stainless Steel Trips

BD series

BD-935(#872-113)
BD-936(#872-123)

Applications:

- BD-1 Barcol Impressor is mainly applied to test aluminum and aluminum alloys, It is suitable to test pure aluminum, aluminum alloys ,thick pieces of aluminum sheets, thick pieces, bars and assembled aluminum alloys parts(e.g.aluminum alloy doors, windows and ladders).
- BD-1 Barcol Impressor is also used to test fiber reinforced plastics and hard plastics.
- BD-1Barcaol Impressor complies with ASTM B648 test Method for Indentation Hardness of Aluminum Alloys by means of a Barcol Impressor.
- BD-1 Barcol Impressor is used to test soft plastics, lead, tin and other soft metals.

Features:

- **Easy to Use:** Single hand operation; easy to use; high efficiency; able to make test at any site.
- **High sensitivity:** Barcol Impressor has 100 graduations. Its sensitivity is much higher than the webster hardness tester.
- **Wide Testing Range:** Used to test from very soft pure aluminum to very hard aluminum alloys.
- **Less Thickness Requirement :**It can test on any workpieces with thickness greater than 0.8mm.
- **No Supporting Requited:** It can test from only one side of the workpiece. It is unnecessary to move or support the workpiece. It is used to test very large and thick worpieces and assembly parts.
- **Easy Conversion:**The test results can be converted to HB,HRC,HV and HBW easily through the conversion table.
- **High Quality Indenter:**The indenter has very high hardness ,long service life and good interchangeablility.

Specifications:

Product Name	Portable Barcol Durometer		
Model	BD-934	BD-935	BD-936
Code#	872-113	872-123	872-133
Indenter	26°panhead cone, head face diameter 0.176mm		
Measuring Range	0～100HBa(equivalent to 25～145HBW)		
Resolution	0.5HBa		
Indication Error	hardness range 42～48HBa, ±2HBa hardness range 81～88HBa ±1HBa		
Repeatability Error	hardness range 42～48HBa, ±2HBa hardness range 81～88HBa ±1HBa		
Net Weight	0.5kg		

Standard Hardness Testing Block

- The hardness blocks are mainly applicable to test the accuracy and calibrate the different hardness testers.
- Conform to standard: ASTM & ISO & JB/T.
- Calibration certificate from Chinese Metrology Bureau is optional available.

Specifications:

Product Name	Specification	Code #	Uniformity	Roughness	Dimension (mm)	Standard
HRA Rockwell Hardness Block	28-88HRA	811-611	±0.5HRA	Ra=0.02um	Φ60x10	ASTM & ISO & JB/T
HRB Rockwell Hardness Block	88-100HRB	811-621	±0.5HRB	Ra=0.02um	Φ64x10	ASTM & ISO & JB/T
HRC Rockwell Hardness Block	25-65HRC	811-631	±0.5HRC	Ra=0.02um	Φ60x10	ASTM & ISO & JB/T
Superficial Rockwell Hardness Block	(79-91) HR15N	811-661N	±0.5HR	Ra=0.02um	Φ60x10	ASTM & ISO & JB/T
	(42-80) HR30N	811-671N				
	(20-70) HR45N	811-681N				
	(88-93) HR15T	811-661T	±0.5HR	Ra=0.02um	Φ64x10	ASTM & ISO & JB/T
	(70-82) HR30T	811-671T				
	(55-72) HE45T	811-681T				
Brinell Hardness Block	(150-600) HBW 10/3000	831-601	±2%HB	Ra=0.28um	Φ100x15	ASTM & ISO & JB/T
	(150-600) HBW 5/750	831-611				
	(150-600) HBW 2.5/187.5	831-621	±2%HB	Ra=0.28um	Φ90x15	ASTM & ISO & JB/T
	(75-125) HBW 10/1000	831-631				
	(75-125) HBW 5/250	831-641	±3%HB	Ra=0.28um	Φ64x12	ASTM & ISO & JB/T
	(75-125) HBW 2.5/62.5	831-651				
Vickers Hardness Block	(150-750)HV1	821-601	±3%HV	Ra=0.02um	Φ60x10	ASTM & ISO & JB/T
	(150-750)HV5	821-611				
	(150-750)HV10	821-621	±2%HV	Ra=0.02um	Φ64x10	ASTM & ISO & JB/T
	(150-750)HV30	821-631				
Micro Vickers Hardness Block	(200-300)HV0.05	823-671	±3%HV	Ra=0.02um	Φ25x5	ASTM & ISO & JB/T
	(200-300)HV0.1	823-661				
	(400-500)HV0.1	823-651				
	(400-500)HV 0.2	823-641				
	(700-800)HV0.2	823-631				
	(700-800)HV0.5	823-621				
	(700-800)HV1	823-611				
Leeb Hardness Block	(490-830)HLD	852-611	±5HLD	Ra=0.03um	Φ90x55	ASTM & ISO & JB/T
	(460-630)HLG	852-621				
Ultrasonic Hardness Block	28-63HRC	882-611	±5HLG	Ra=0.03um	Φ120x70	ASTM & ISO & JB/T
	(300-800)HV1	882-621				
	(180-500)HV5	882-631				
	(300-800)HV5	882-631				
Portable Brinell Hardness Block	(150-500)HBW5/750	832-681	±2%	Ra=0.02um	12X12X150	ASTM & ISO & JB/T
	(150-500)HBW5/3000	832-691	±2%	Ra=0.02um	14X14X150	ASTM & ISO & JB/T
Shore Hardness Block	Shore A	842-611	±1H	Ra=0.02um	7PCS	ASTM & ISO & JB/T
	Shore D	842-621	±1H	Ra=0.02um	3PCS	ASTM & ISO & JB/T

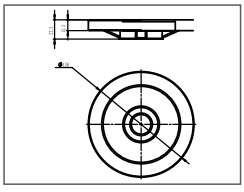
Optional Accessories

Hardness Indenter

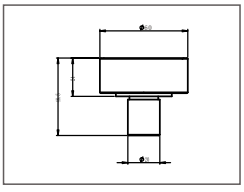
Leeb Hardness Tester
Optional Mini-printer
(#852-838)

20x Brinell Mechanic Microscope
(#831-221)

Steel Ball
(#811-421/441/461/481)

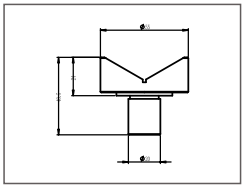


Ø150mm Flat Anvil(#811-541)

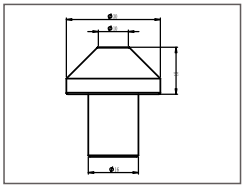


Ø60mm Flat Anvil(#811-521)

Ø60mm Flat Anvil(#811-521)

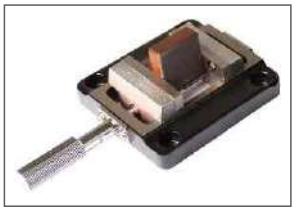


Ø40mm V-shape Anvil(#811-511)



Small Flat Anvil(#811-501)

Mini-Printer(#821-831)



Flat Precision Clamp
(#823-711)

Thin-Piece Clamp
(#823-751)

Filament Clamp
(#823-811)

Filament Clamp
(#823-811)

16x Digital Eyepiece
(#823-351)

20x Brinell Digital Microscope
(#831-221)

Motorized X-Y Platform
(#823-701)

Vickers Video Measuring System
(#823-811)

USB CMOS Camera
(#484-132)

Vickers CCD Adapter
(#823-361)

Vickers Measuring System
(#821-834)

Brinell Measuring System BrinScan
(#838-380)

ISO9001:2008 Certified Manufacturer
National Authorized Hi-Tech Manufacturer

11952 Lindblade St.. Culver City, CA.90230 Tel: 310.736-1901
info@physicaltestsolutions.com www.physicaltestsolutions.com